

nLight ECLYPSE™ BACnet Object Quick Reference Guide



The **nLight ECLYPSE™** controller is a BACnet Building Controller (**B-BC**) certified device that acts as the IP interface for an nLight lighting control system, including support for both nLight and XPoint Wireless devices. It provides a BACnet interface (optional) that is BACnet Testing Laboratories (**BTL**) listed for system integration to a building management system through BACnet/IP and BACnet MS/TP.

The following chart provides the available BACnet object types and description of each object.

Object Name	Type	Units	Range	Read	Write	COV	Inactive State (0)	Active State (1)	Notes
Occupied (Px)	BI	-	-	X	-	X	Unoccupied	Occupied	The occupancy state provides feedback on whether an occupancy sensor is occupied or unoccupied (e.g. nCM PDT 9, XPA CMRB). For multi-pole occupancy sensors (e.g. nCM 9 2P), two BACnet objects will be available.
Relay State (Px)	BV	-	-	X	X	X	Relay Open	Relay Closed	The relay state provides feedback on whether the relay in a device is open or closed (e.g. nPP16 D, XPA CMRB).
Dimming Output Level (Px)	AV	Percentage	0 - 100	X	X	X	-	-	The dimming output level provides the intensity of a dimming devices (e.g. nPP16 D, nLight Enabled Fixture, nSP5 PCD, nIO D, XPA RL1).
Measured Light Level	AI	Foot-Candles	0 - 212	X	-	X	-	-	The measured light level provides an analog foot-candle reading from a device with a photocell (e.g. nCM ADCX, nWSX LV, nCM PDT 9, XPA SBOR).
Photocell Inhibiting (Px)	BI	-	-	X	-	X	Not Inhibiting	Inhibiting	When a photocell device is programmed to turn lights off or inhibit lights from turning on, photocell inhibiting provides indication when the photocell has provided this "off/inhibit" command. This point is available with nLight devices only (e.g. nCM PC).
Active Load	AI	Watts	0 - 4432	X	-	X	-	-	The active load provides an analog power consumption reading of the lighting load connected to a device with the current monitoring feature (e.g. nPP16 IM, XPA RL1, XPA SBOR).
Dimming Input Level	AI	Percentage	0 - 100	X	-	X	-	-	The dimming input level provides an analog reading of the input percentage on the signal to an input device. This point is available with nLight devices only (e.g. nIO 1S).
Online	BI	-	-	X	-	X	Device Offline	Device Online	The online status provides indication whether a device is communicating with nLight ECLYPSE controller or not.
System Profile ¹	BV	-	-	X	X	X	Profile Inactive	Profile Active	The system profile object provides feedback on whether a profile is active/inactive.
Channel Occupied ^{1,2}	BI	-	-	X	-	X	Unoccupied	Occupied	Aggregate state of all occupancy sensors broadcasting on an occupancy channel: Unoccupied = all occupancy sensors on the channel are unoccupied. Occupied = one or more occupancy sensors on the channel are occupied.
Channel Relay State ^{1,2}	BV	-	-	X	X	X	Inactive	Active	The channel relay state provides feedback on whether the relays in a channel are open or closed.
Channel Dimming Output Level ^{1,2}	AV	Percentage	0 - 100	X	X	X	-	-	This value represents the average of all dimming output levels on the respective switch channel. Writing to this value is the equivalent of sending an nLight switch "go to level" command.
Automated Demand Response Level	MS	Level	1 - 4	X	-	X	-	-	This setting is only exposed if a valid license for ADR has been added to an ECLYPSE. This value represents the current status of a system responding to demand response.

- Px = Indicates device pole. Most devices only have a single pole (P1), devices with secondary pole will display P1 and P2.
- BV = Binary Value
- BI = Binary Input
- AV = Analog Value
- AI = Analog Input
- COV = Object is capable of providing "Change of Value" notification
- MS = Multistate

NOTE

1. A BACnet object is available after a user has completed programming of the initial artifact (profile, channel, etc.).

2. nLight AIR requires that a switch be associated with output devices in a group before channel objects will be created.

For additional information on nLight ECLYPSE BACnet integration, please see the [nLight ECLYPSE B-BC PICS](#) document.